

What is claimed is:

1. A functional fiber sheet comprising synthetic fiber, one face or both faces thereof being coated with a physically vapor-deposited film comprising metallic oxides, wherein said metallic oxides comprise a mixture of ordinary oxides as a main component and a small amount of oxides having a lower valence than the ordinary oxides as a secondary component.
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2. The functional fiber sheet as set forth in Claim 1 wherein the amount of lower valence oxides to the total amount of metallic oxides is 0.1 to 20 wt % and wherein the thickness
10 of said physically vapor-deposited film is 5 to 500 nm.
3. The functional fiber sheet described in Claims 1 or 2 wherein said metallic oxide is titanium oxide, its ordinary oxide being a tetravalent oxide and wherein said lower valence oxides are divalent or trivalent oxides.
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4. A method for manufacturing a functional fiber sheet comprising the steps of:
forming a physically vapor-deposited film of metallic oxides on a fiber sheet through a physical vapor deposition process;
forming ordinary oxides as a main component of the metallic oxides of the
20 physically vapor-deposited film by increasing the amount of oxygen to be supplied during the physical vapor deposition process; and

forming a small amount of oxides having a lower valence than the ordinary oxides as a secondary component of the metallic oxides by lowering the amount of oxygen to be supplied to the physical vapor deposition process.

5 5. The functional fiber sheet as set forth in Claim 1 wherein the synthetic fiber comprises synthetic fiber used in usual knit and woven use.

6. The functional fiber sheet as set forth in Claim 1 wherein the synthetic fiber comprises polyester fiber, nylon fiber, acrylic fiber or polyimide fiber.

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